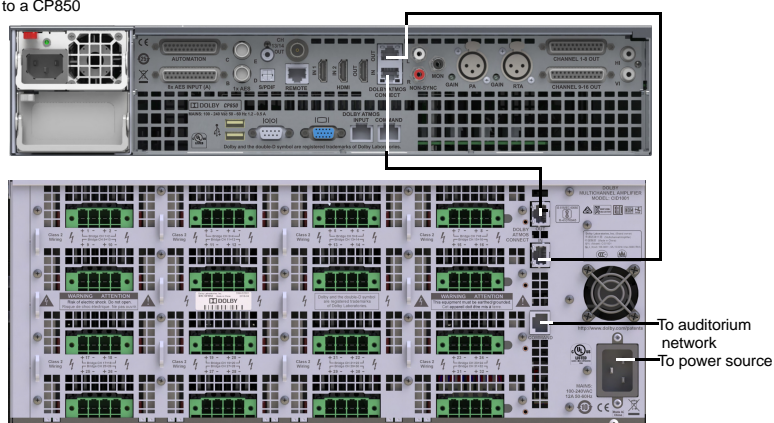# Dolby Multichannel Amplifier Quick Start Guide

This document provides initial setup instructions for one or two Dolby® Multichannel Amplifiers in a Dolby Atmos® environment using a Dolby Atmos Cinema Processor CP850 or a Dolby Integrated Media Server IMS3000 with Dolby Atmos. To transmit 7.1 or 5.1 audio to a Dolby Multichannel Amplifier using a Dolby CP750 cinema processor (or another cinema processor) that has analog audio outputs (but no compatible digital audio outputs), you can use Dolby Multichannel Amplifier models that include a CAT1416 analog-to-digital-converter card (as shown on page 4 of this document). The model numbers for these units end in **302**. For information on other configurations and detailed operating instructions, see the *Dolby Multichannel Amplifier Manual*, which is available at https://www.dolbycustomer.com.
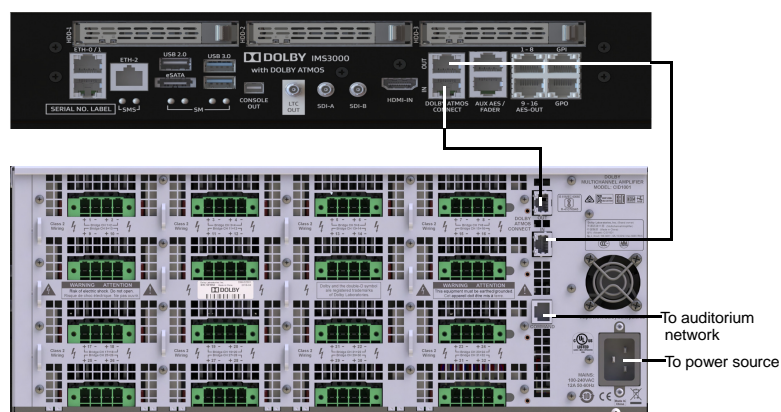
Connecting a Single Unit to Output Up to 32 Channels

1. Rack mount the amplifier in a 4U rackspace. It is 22 inches deep, but we recommend a rack that is 32 inches deep so that you can install the required cables.

2. Use a shielded Cat5e or greater cable to connect the **COMMAND** port to the auditorium network switch.

3. Use a shielded Cat5e or greater cable to connect the CP850 or IMS3000 **DOLBY ATMOS CONNECT OUT** port to the amplifier **DOLBY ATMOS CONNECT IN** port.

4. Use a shielded Cat5e or greater cable to connect the CP850 or IMS3000 **DOLBY ATMOS CONNECT IN** port to the amplifier **DOLBY ATMOS CONNECT OUT** port.

Connecting to a CP850

Connecting to an IMS3000

5. Plug the unit into any dedicated electrical circuit with a line input voltage from 100–240 V (to place the amplifier into off mode and illuminate the power button in yellow), press the power button to boot up the unit, and then connect your computer to the auditorium switch.

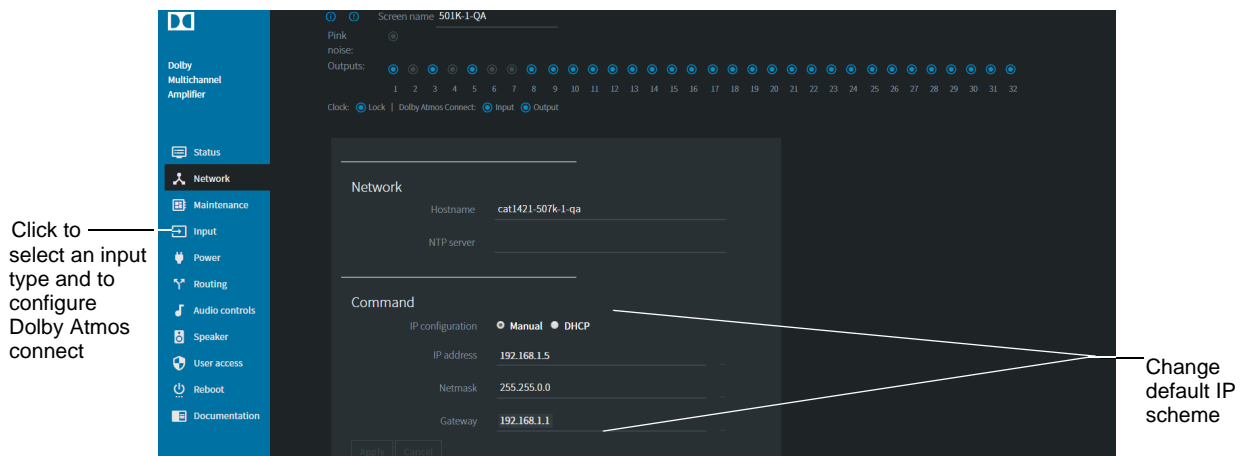LED signal indicators — — Power button

> **Note:** The Dolby Multichannel Amplifier boots up in approximately 3.5 minutes. During start-up, the power button on the front panel flashes on and off in white. When the boot process is complete, the power button and the LED signal indicators (for each available output channel) illuminate in blue.

6. Configure your computer IP address to communicate with the amplifier default IP address (192.168.1.143) on the **COMMAND** port. We recommend that you enter an IP address above 192.168.1.150 and below 192.168.1.254, with a subnet of 255.255.255.0.

7. Open your web browser, and enter the amplifier **COMMAND** port default IP address 192.168.1.143 to display the web client user-control screen. (Currently, we recommend only the Google™ Chrome™ browser.)

8. Click **Network** in the navigation menu, and under the **Command** section of the **Network** tab, click **Manual** for **IP configuration**. We recommend that you change the **IP address**, **Netmask**, and **Gateway** settings to work with your IP schema by clicking in the respective fields, making the required entries, and clicking **Apply**. When prompted for credentials, the default password is *password*.

   If you are using the Dolby default IP scheme, we recommend that you change the third octet of the default IP address to match your auditorium number and the fourth octet to 143. This will be 192.168.x.143, where x = auditorium number.

9. Click **Input** in the navigation menu to select an **Input Type**, (**digital** for the CP850 and IMS3000 or **analog** for the CP750) and to configure the **Dolby Atmos Connect** parameters.

   If you are installing only one unit, this completes your initial setup and you can now go to https://www.dolbycustomer.com to download the *Dolby Multichannel Amplifier Manual* and follow the detailed instructions for using the unit and setting up user credentials (if you are a system administrator).

Click to select an input type and to configure Dolby Atmos connect

Change default IP scheme

Connecting Two Units to Output Up to 64 Channels

1. Connect the **COMMAND** port on each amplifier to the auditorium network switch.

2. Connect the CP850 or IMS3000 **DOLBY ATMOS CONNECT OUT** port to the **DOLBY ATMOS CONNECT IN** port on the first amplifier rear panel.

3. Connect the **DOLBY ATMOS CONNECT OUT** port on the first amplifier to the **DOLBY ATMOS CONNECT IN** port on the second amplifier.

4. Connect the CP850 or IMS3000 **DOLBY ATMOS CONNECT IN** port to the **DOLBY ATMOS CONNECT OUT** port on the second amplifier.
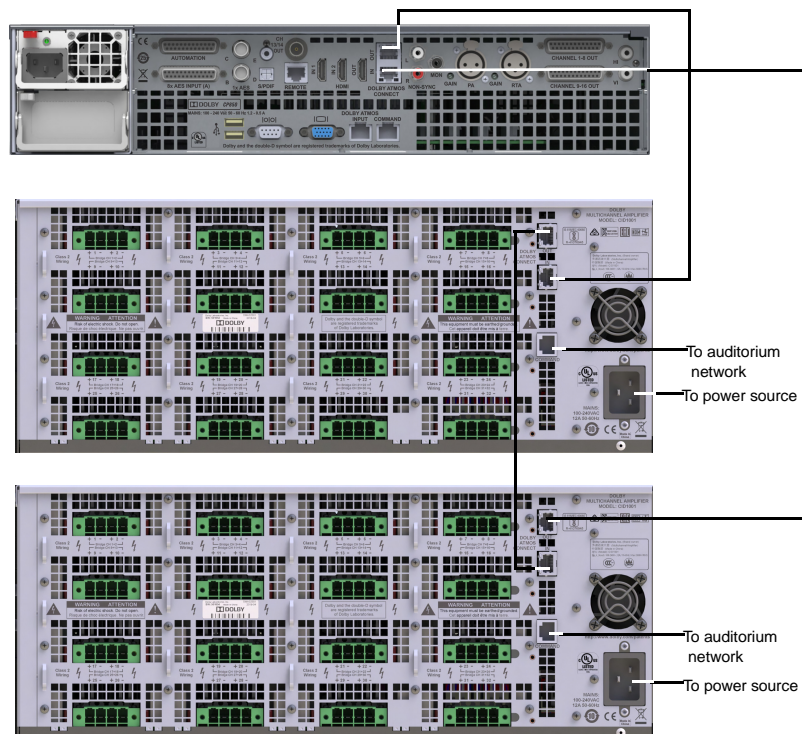
> **Note:** Be sure to use shielded Cat5e or greater cables for the input/output connections.

5. Plug the second unit into a dedicated electrical circuit with a line input voltage from 100–240 V, then follow steps 6, 7, 8, and 9 in the previous instructions for connecting a single unit, and also apply these to the second unit.
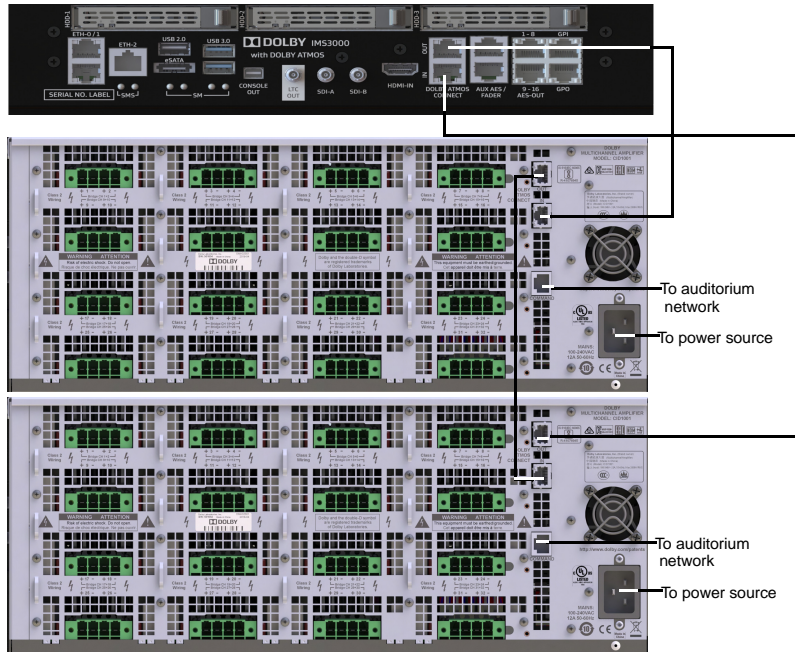
   If you are using the Dolby default IP scheme, we recommend that you change the fourth octet of the second unit to 144. This results in an IP address of 192.168.x.144 for the second channel group, where x = auditorium number. (The previously configured IP address for the first unit is 192.168.x.143 for the first channel group.)

6. You can now go to https://www.dolbycustomer.com to download the *Dolby Multichannel Amplifier Manual* and follow the detailed instructions for using the unit and setting up user credentials (if you are a system administrator). For help using your system, send an email to cinemasupport@dolby.com.

Connecting two amplifiers to a CP850

To auditorium network
To power source

To auditorium network
To power source

Connecting two amplifiers to an IMS3000

To auditorium network
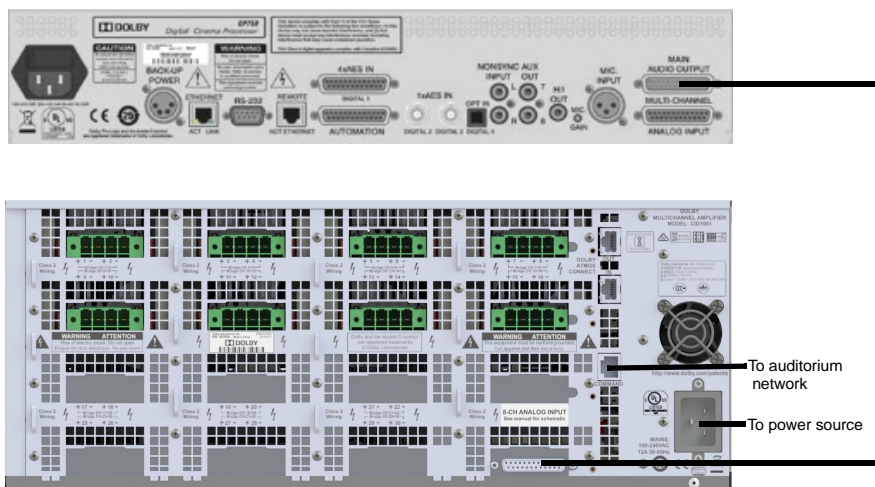
To power source

To auditorium network

To power source

Connecting to a CP750 (Or Another Cinema Processor with Analog Outputs)

For a Dolby CP750 cinema processor (or another cinema processor) that has analog audio outputs (but no compatible digital audio outputs), you can transmit 7.1 or 5.1 audio to a Dolby Multichannel Amplifier that includes a CAT1416 analog-to-digital-converter card. The model numbers for these units end in **302**.

Connect the CP750 **MAIN AUDIO OUTPUT** to the amplifier CAT1416 audio input using a male-to-female 25-pin D-connector cable. You can use the optional Dolby cable (Part Number DMA-ACC-ANA-CBL), which has shielded audio pairs to limit noise and crosstalk, or you can use your own cable that meets these specifications. You also need to click **Input** in the navigation menu (as shown on page 2) to select an **analog Input Type**. The last eight front-panel LEDs on the amplifier illuminate in solid green after booting up, and flash in green when 7.1 analog input channels are present. When CAT1416 output signals are present, these LEDs illuminate in blue. For information on other configurations and detailed operating instructions, see the *Dolby Multichannel Amplifier Manual*, which is available at https://www.dolbycustomer.com.

The following figure shows a CP750 audio connection to a DMA16302.

To auditorium network

To power source

This document applies to Model CID1001.

Patents

This product may be protected by patents and pending patent applications in the United States and elsewhere. For more information, including a specific list of patents protecting this product, please visit http://www.dolby.com/patents.

This symbol that appears on the unit rear panel is intended to alert the user to the presence of uninsulated "dangerous" voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol that appears on the unit rear panel is intended to alert the user to the presence of important safety operating and maintenance instructions.

This symbol that appears on the unit rear panel is intended to alert the user that high voltage is present at the speaker output terminals and that these terminals should be handled and connected only by an authorized (trained) technician. Use Class-2 wiring for all speaker connections.